

AC Voltage Drop & Power losses

| From Inverters to PV MDB's to Pocc | | | | | | | | | | | | |
|------------------------------------|------------------------|---|-----------------|------------------|--------|------|----------|----------------------------------|--------|----------|---------------------------------------|------------------------------------|
| Inv # | Power of Inverter (KW) | Cables Cross-Section (mm ²) | AC POWER (Kwac) | Grid Voltage (V) | IL (A) | mV | Length m | Circuit Breaker For Inverter (A) | V Drop | V drop % | Power Losses (P _{Loss}) (W) | Power Losses (P _{loss} %) |
| INV N.1 | 40 KW | 4 X 10 mm ² | 40 KW | 400 V | 58 A | 3.53 | 10 | 100A~4P | 2.05 | 0.51% | 118.75 | 0.30% |
| Main | 40 KW | 4 X 25 mm ² | 40 KW | 400 V | 58 A | 1.46 | 50 | 100A~4P | 4.22 | 1.06% | 244.90 | 0.61% |
| THE WHOLE SYSTEM | | | | | | | | | 1.57% | | 0.91% | |